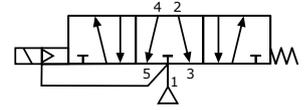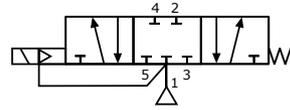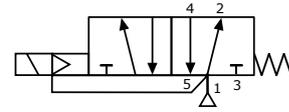**pneumatrol**

E25--C Series, 1/4", 5/2 or 5/3 Function Solenoid Valve

DESCRIPTION

Pilot operated solenoid valve.

Hazardous area approved pilot operators (ExnA, Exm, Exme, Exd and Exia) are available with various international approvals – ATEX, IECEx, FM, GOST CU TR (Russia) and NEPSI (China).

Body material available in
- Aluminium (standard)
- Stainless Steel
- Brass

Seal kit available – VSK200

FEATURES

- Internal or external pilot air connection
- Single coil spring return function or double coil stay put function
- Convenient fixing holes to enable bracket mounting
- Pilot exhaust dust caps fitted as standard
- Interchangeable CNOMO interface coil units, including hazardous area options

PRODUCT CODE: E 2 5 ☐☐ C ☐ 0 ☐ ☐ ☐

| | OPTIONS 1 | DESIGNATOR |
| OPERATOR | COIL | VOLTAGE | OPTIONS 2 |

SEE BELOW FOR PRODUCT CODE DETAILS

Any of the below options that are not required enter '0' in relevant box.

Operator

1 8	Spring return, internal pilot air feed
8 0	Spring return, external pilot air connection
1 9	Double solenoid, internal pilot air feed
9 0	Double solenoid, external pilot air connection
1 4	5/3 All ports sealed mid position, internal pilot air feed
4 0	5/3 All ports sealed mid position, external pilot air connection
1 5	5/3 Inlet sealed open exhaust mid position, internal pilot air feed
5 0	5/3 Inlet sealed open exhaust mid position, external pilot air connection

Coil

A	Exia (BASEEFA)
B	Terminal Box
D	Exd
H	Plug & Socket Exia
K	MC30 Plug & Socket
L	MC30 Plug & Socket with LED
N	ExnA
P	Plug & Socket
S	Exia (BASEEFA) Stainless Steel Housing
T	Inline Terminal Box
U	Exia (FM)
0	No Coil Unit
9	Exm

Options 1

C	Lever manual override
D	Push button manual override
S	Screw driver override (standard)
0	No option required

Standard Voltage

B	24v DC
H	24v DC Low Power [(1)]
R	24v AC (50/60 Hz)
T	110v AC (50/60 Hz)
N	220v AC (50/60 Hz)
U	240v AC (50/60 Hz)

* A comprehensive range of non-standard voltages available on request

Note:
(1) "H" option not available with Exia solenoids
(2) IECEx only available with Exia and Exd Solenoids
(3) GOST CU TR only available with Exd solenoids
(4) NEPSI only available with Exia and Exd solenoids

Designator

|	
A	ATEX
B	Exia 10mA
C	IECEx [(2)]
E	Exme 0.5W
G	ATEX Exd IIB
H	Exm
J	Exme 2.4W
R	GOST CU TR [(3)]
X	NEPSI [(4)]

Options 2

B	Valve body brass
C	Valve body brass and NPT ports
D	Valve body brass, NPT ports and 1/2" NPT electrical connection
E	1/2" NPT electrical connection
L	Low temperature duty -40°C
M	NPT ports and 1/2" NPT electrical connection
N	NPT ports
P	Valve body stainless steel, NPT ports and 1/2" NPT electrical connection
R	Valve body stainless steel and NPT ports
S	Valve body stainless steel
X	Valve suitable for use with Oxygen

* A comprehensive range of non-standard options available on request

COIL ORIENTATION

The coil itself can be rotated in 90° steps by releasing the four securing screws. (FIG 1) When rotating the coil care should be taken to ensure the core assembly (core, spring, seal and washer) remains intact and aligned correctly. This is easily achieved by only lifting the coil the small amount required to clear the screws enabling the coil to be rotated.
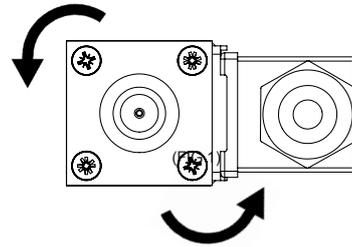
MATERIAL SPECIFICATIONS

	STANDARD
Body And End Caps	Black Anodised Aluminium (Dural)
Spool	Hard Anodised Aluminium PTFE Impregnated
Jet	Brass
Spacers	Glass Filled Acetal
Seals	Nitrile (Alternative Seals Available)
Spring	Music Wire

VALVE SPECIFICATIONS

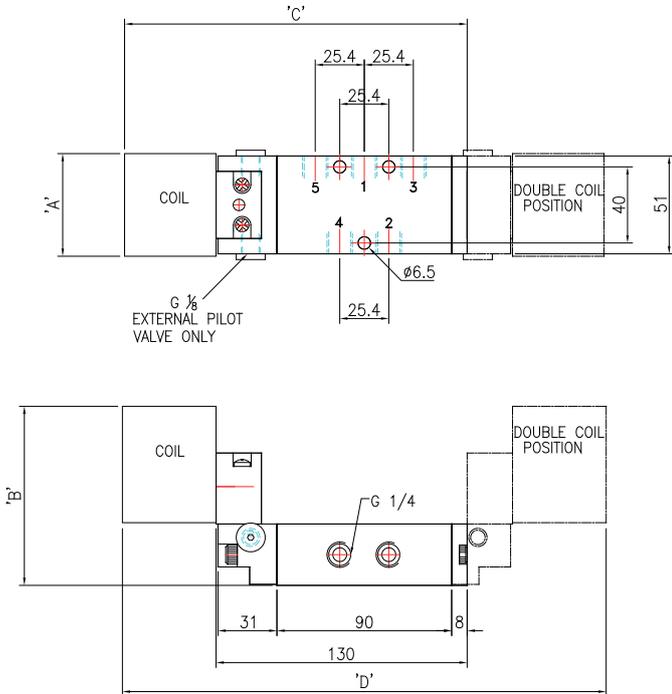|	STANDARD
Port Connection Size	1/4" BSP
Working Pressure Internal Pilot Version	3 to 10 bar
Working Pressure External Pilot Version	3 to 10 bar
Minimum External Pilot Pressure	3 bar
Cv Factor	1.2
Flow Rate (at 6 bar with 1 bar pressure drop)	1246 l/min
Maximum Ambient Temperature	+80 °C
Minimum Working Temperature	-20 °C

COIL DETAILS

Coil Type	Plug & Socket	Terminal Box	ExnA	Exd	Exm	Exia
Area Class	Safe	Safe	Zone 2	Zones 1 & 2	Zones 1 & 2	Zone 0, 1 & 2
Area Category	N/A	N/A	ExN II T4-T6	Exd IIC T3-T6	Exm IIC T5	Exia IIC T6
Ingress Protection	IP65	IP65	IP65	IP66	IP65	IP65
Cable Entry	PG.9	M20 x 1.5	M20 x 1.5	M20 x 1.5	Flying leads	M20 x 1.5
Ambient Temperature	-20 to +80 °C	-20 to +80 °C	-40 to +60 °C	-60 to +80 °C	-20 to +65 °C	-40 to +65 °C
Magnetic Wire Class	H	H	H	H	H	H

* FURTHER SOLENOID OPTIONS AVAILABLE ON REQUEST

REMOTE Mounted, E25--C Series, 1/4", 5/2 or 5/3 Function Solenoid Valve

Specifications subject to change without prior notice.

DIMENSIONS (mm)

5/2 Position

COIL TYPE	A	B	C	D
MC30 Plug & Socket	36	102	174	241
Heavy Duty Mazak Plug & Socket	36	113	174	241
Standard Terminal Box	36	100	182	257
SS Terminal Box	52	120	199	291
ExnA Terminal Box	36	100	182	257
Exd SS Terminal Box	52	120	199	291
Exm Flying Lead	36	107	170	233
Exme Terminal Box	36	100	182	257
Piezo Operator	32	73	183	259
Exia SS Terminal Box	52	120	206	305
Exia Std. Terminal Box	36	100	189	271
Exia Plug & Socket	36	126	177	247

5/3 Position
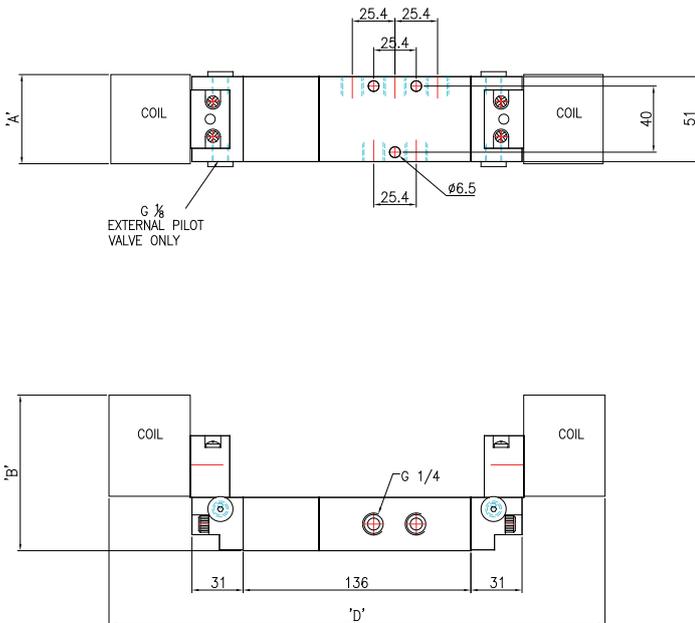
COIL TYPE	A	B	D
MC30 Plug & Socket	36	102	287
Heavy Duty Mazak Plug & Socket	36	113	287
Standard Terminal Box	36	100	303
SS Terminal Box	52	120	337
ExnA Terminal Box	36	100	303
Exd SS Terminal Box	52	120	337
Exm Flying Lead	36	107	279
Exme Terminal Box	36	100	303
Piezo Operator	32	73	305
Exia SS Terminal Box	52	120	351
Exia Std. Terminal Box	36	100	317
Exia Plug & Socket	36	126	293